

INFORMATION DISCLOSURE CITATION		ATTY. DOCKET NO. 21501-721		SERIAL NO. <u>2 9/811, 365</u> Unassigned	
PTO-1449		APPLICANT Sorin		FILING DATE 03/16/01	
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U.S. PATENT DOCUMENTS					
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS
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EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
BKH	J.N. Blake, B.Y. Kim, H.E. Engan, and H.J. Shaw, "Analysis of intermodal coupling in a two-mode fiber with periodic microbends", Opt. Lett., vol. 12, 281-283 (1987).				
BKH	B.Y. Kim, J.N. Blake, H.E. Engan, and H.J. Shaw, "Acousto-optic frequency-shifting in two-mode optical fibers", OFS '86, Tokyo, Japan (October 8-10, 1986).				
BKH	H.E. Engan, B.Y. Kim, J.N. Blake, and H.J. Shaw, "Propagation and optical interaction of guided acoustic waves in two-mode optical fibers", Journal of Lightwave Technology, vol. 6, 428-436 (1988).				
BKH	J.O. Askautrud and H.E. Engan, "Fiberoptic frequency shifter with no mode change using cascaded acousto-optic interaction regions", Opt. Lett., vol. 15, 649-651 (1990).				
BKH	H.E. Engan, T. Myrveit, and J.O. Askautrud, "All-fiber acousto-optic frequency shifter excited by focused surface acoustic waves", Opt. Lett., vol. 16, 24-26 (1991).				
BKH	H.E. Engan, D. Östling, P.O. Kval, and J.O. Askautrud, "Wideband operation of horns for excitation of acoustic modes in optical fibers", Proc. OFS(10), Glasgow, 11th - 13th Oct. 1994, 568-571 (SPIE Proc. 2360).				
BKH	D. Östling and H.E. Engan, "Narrow-band acousto-optic tunable filtering in a two-mode fiber", Opt. Lett., vol. 20, 1247-1249 (1995).				
BKH	H.E. Engan, "Analysis of polarization mode coupling by acoustic torsional waves in optical fibers", J. Opt. Soc. Am. A., vol. 13, 112 - 118 (1996).				
BKH	D. Östling and H.E. Engan: "Spectral flattening by an all-fiber acousto-optic tunable filter", 1995 IEEE Ultrasonics Symposium, 837 - 840.				
BKH	D. Östling and H.E. Engan: "Broadband spatial mode conversion by chirped fiber bending", Opt. Lett., vol. 21, 192 - 194 (1996).				
BKH	D. Östling and H.E. Engan: "Polarization-selective mode coupling in two-mode Hi-Bi fibers", Journal of Lightwave Technology, vol. 15, 312-320 (1997).				
BKH	D. Östling, B. Langli, and H.E. Engan: "Intermodal beat lengths in birefringent two-mode fibers", Opt. Lett., vol. 21, 1553 - 1555 (1996).				
EXAMINER		B. Healy		DATE CONSIDERED 3/5/03	

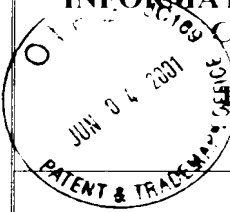
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
BuH	H.E. Engan, "Acoustic torsional waves used for coupling between optical polarization modes in optical fibers", 1996 IEEE Ultrasonics Symposium, 799-802				
BuH	D. Östling and H.E. Engan: "Acousto-optic tunable filters in two-mode fibers", Optical Fiber Technology, vol. 3, 177 - 183 (1997).				
BuH	B. Langli, P. G. Sinha and K. Blotekjær, "Acousto-Optic Mode Coupling of Partially Coherent Light in Two-Mode Fibers", Optical Review, Vol.4, No.1A, pp.121-129, Jan./Feb. 1997.				
BuH	T.A. Birks, P.S.J. Russell and C.N. Pannell, "Low power acousto-optic device based on a tapered single-mode fiber", IEEE Photonics Technol. Lett., vol. 6, p. 725 - 727 (1994).				
BuH	M. Berwick and D.A. Jackson, "Coaxial optical-fiber frequency shifter", Opt. Lett., vol. 17, 270-272 (1992)				
BuH	J. Blake and P. Siemsen, "Practical compact high performance fiber-optic frequency shifter", Proc. 9 th OFS Conference, Firenze, pp. 301 - 304 (1993).				
BuH	W. P. Risk, G. S. Kino and H. J. Shaw, "Fiber-optic frequency shifter using a surface acoustic wave incident at an oblique angle", Optics Letters, Vol. 11, No. 2, pp 115-117, 1986.				
BuH	W. P. Risk, R. C. Youngquist, G. S. Kino and H. J. Shaw, "Acousto-optic frequency shifting in birefringent fiber", Optics Letters, Vol. 9, No. 7, pp 309-311, 1984.				
BuH	W. P. Risk and G. S. Kino, "Acousto-optic fiber-optic frequency shifter using periodic contact with a copropagating surface acoustic wave", Optics Letters, Vol. 11, No. 5, pp 336-338, 1986.				
BuH	W. P. Risk and G. S. Kino, "Acousto-optic polarization coupler and intensity modulator for birefringent fiber", Optics Letters, Vol. 11, No. 1, pp 48-50, 1986.				
BuH	W.P. Risk, G.S. Kino and B.T. Khuri-Yakub, "Tunable optical filter in fiber-optic form", Opt. Lett., vol. 11, p. 578 - 580 (1986).				
BuH	S.F. Su, R. Olshansky, D.A. Smith and J.E. Baran, "Flattening of erbium-doped fibre amplifier gain spectrum using an acousto-optic tunable filter", Electron. Lett., vol. 29, p. 477 - 478 (1993).				
BuH	Yijiang Chen, "Acousto-optic frequency shifter using coaxial fibers", Optical and Quant. Elect., vol. 21, pp. 491 - 498 (1989).				
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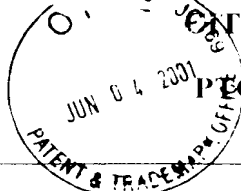
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<u>BCH</u>	J. Ji, D. Uttam and B. Culshaw, "Acousto-optic frequency shifting in ordinary single-mode fibre", Electronics Letters, Vol. 22, No. 21, pp 1141-1142, 1986.				
<u>BCH</u>	C. N. Pannell, R. P. Tatam, J. D. C. Jones and D. A. Jackson, "Optical frequency shifter using linearly birefringent monomode fibre", Electronics Letters, Vol. 23, No. 16, pp 847-848, 1987.				
<u>BCH</u>	K. Nosu, H. F. Taylor, S. C. Rashleigh and J. F. Weller, "Acousto-optic phase modulator and frequency shifter for single-mode fibers", Ultrasonics Symposium, pp 476-481, 1983.				
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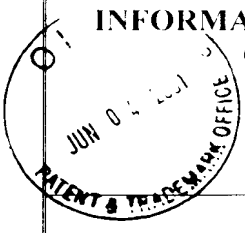
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
BMH	Sorin, W.V. et al, "Phase Velocity Measurements using Prism Output for Single and Few-Mode Fibers", <i>Optics Letters</i> , Feb. 1986, Vol. 11, No. 2, pp. 106-108						
BMH	Blake, B.Y. et al, "Fiber-Optic Modal Coupler using Periodic Microbending", <i>Optics Letters</i> , Mar. 1986, Vol. 11, No. 3, pp. 177-179						
BMH	Kim, B.Y. et al., "All-Fiber Acousto-Optic Frequency Shifter", <i>Optics Letters</i> , June 1986, Vol. 11, No. 6, pp. 389-391						
BMH	Sorin, W.R. et al, "Highly Selective Evanescent Modal Filter for Two-Mode Optical Fibers", <i>Optics Letters</i> , Sept. 1986, Vol. 11, No. 9, pp. 581-583						
BMH	Blake, J.N. et al, "Analysis of Intermodal Coupling in a Two-Mode Fiber with Periodic Microbends", <i>Optics Letters</i> , April 1987, Vol. 12, No. 4, pp. 281-283						
BMH	Kim, B.Y. et al, "Use of Highly Elliptical Core Fibers for Two-Mode Fiber Devices", <i>Optics Letters</i> , Sept 1987, Vol. 12, No. 9, pp. 729-731						
BMH	Blake, J.N., et al, "Strain Effects on Highly Elliptical Core Two-Mode Fibers", <i>Optics Letters</i> , Sept. 1987, Vol. 12, No. 9, pp. 732-734						
BMH	Engan, H.E. et al, "Propagation and Optical Interaction of Guided Acoustic Waves in Two-Mode Optical Fibers", <i>IEEE Journal of Lightwave Technology</i> , Mar. 1988, Vol. 6, No. 3, pp. 428-436						
BMH	Park, H.G. et al, "Intermodal Coupler using Permanently Photo-Induced Grating in Two-Mode Optical Fibre", <i>Electronic Letters</i> , June 8, 1989, Vol. 25, No. 12, pp. 797-799						
BMH	Park, H.G. et al, "All-Optical Intermodal Switch using Periodic Coupling in a Two-Mode Waveguide", <i>Optics Letters</i> , August 15, 1989, Vol. 14, No. 16, pp. 877-879						
BMH	Huang, S.Y. et al, "Perturbation Effects on Mode Propagation in Highly Elliptical Core Two-Mode Fibers", <i>IEEE Journal of Lightwave Technology</i> , Jan. 1990, Vol. 8, No. 1, pp. 23-33						
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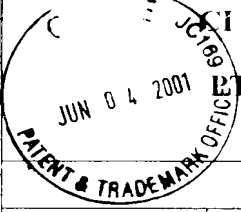
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BMH	Koh, Y.W. et al, "Strain Effects on Two Mode Fiber Gratings", <i>Optics Letters</i> , Apr. 1, 1993, Vol. 18, No. 7, pp. 497-499						
BMH	Yun, S H. et al, "All-fiber Tunable Filter and Laser based on Two-mode Fiber", <i>Optics Letters</i> , Jan. 1996, Vol. 21, No. 1, pp. 27-29						
BH	Yun, S H. et al, "Suppression of Polarization Dependence in a Two-Mode Fiber Acousto-Optic Device", <i>Optics Letters</i> , June 15, 1996, Vol. 21, No. 12, pp. 908-910						
BH	Kim, H.S. et al, "Longitudinal Mode Control in Few-Mode Erbium-Doped Fiber Lasers", <i>Optics Letters</i> , Aug. 1, 1996, Vol. 21, No. 15, pp. 1144-1146						
BH	Jeon, M.Y. et al, "An Electronically Wavelength-Tunable Mode-Locked Fiber Laser Using an All-Fiber Acoustooptic Tunable Filter", <i>IEEE Photonics Technology Letters</i> , Dec. 1996, Vol. 8, No. 12, pp. 1618-1620						
BH	Kim, H.S. et al, "All-fiber acousto-optic tunable notch filter with electronically controllable profile", <i>Optics Letters</i> , Oct. 1, 1997, Vol. 22, No. 19, pp. 1476-1478						
BH	Yun, S H. et al, "Wavelength-Swept Fiber Laser with Frequency Shifted Feedback and Resonantly Swept Intra-Cavity Acoustooptic Tunable Filter", <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , Aug. 1997, Vol. 3, No. 4, pp. 1087-1096 (Invited Paper)						
BH	Jeon, M.Y. et al, "Harmonically mode-locked fiber laser with an acousto-optic modulator in a Sagnac loop and Faraday rotating mirror cavity", <i>Optics Communications</i> , Apr. 15, 1998, Vol. 149, pp. 312-316						
BH	Kim, H.S. et al, "Actively gain-flattened erbium-doped fiber amplifier over 35nm using all-fiber acoustooptic tunable filters", <i>IEEE Photonics Technology Letters</i> , June 1998, Vol. 10, No. 6, pp. 790-792						
BH	Hwang, I.K. et al, "Long-period fiber gratings based on periodic microbends", <i>Optics Letters</i> , Sept. 15, 1999, Vol. 24, No. 18, pp. 1263-1265						
BH	Yun, S H. et al, "Dynamic Erbium-Doped Fiber Amplifier Based on Active Gain Flattening with Fiber Acoustooptic Tunable Filters", <i>IEEE Photonics Technology Letters</i> , Oct. 1999, Vol. 11, No. 10, pp. 1229-1231						
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
BMH	Blake, J.N. et al, "All-Fiber Acousto-Optic Frequency Shifter using Two-Mode Fiber", <i>Proceedings of the SPIE Fiber Optic Gyros</i> , Sept. 1986, Vol. 719, pp. 92-100						
BH	Blake, B.Y. et al, "Acousto-Optic Frequency Shifting in Two-Mode Optical Fibers", <i>OFS '86, Tokyo, Japan</i> , Oct. 8-10, 1988, pp. 159-162						
BH	Engan, H.E. et al, "Optical Frequency Shifting in Two-Mode Optical Fibers by Flexural Acoustic Waves", <i>IEEE 1986 Ultrasonics Symposium</i> , Nov. 17-19, 1986, pp. 435-438						
BH	Huang, S.Y. et al, "Mode Characteristics of Highly Elliptical Core Two-Mode Fibers under Perturbations", <i>OFS '88, New Orleans, Louisiana</i> , Jan. 27-29, 1988, pp. 14-17						
BH	Kim, B.Y. et al, "Few-Mode Fiber Devices", <i>OFS '88, New Orleans, Louisiana</i> , Jan. 27-29, 1988, pp. 146-149, (Invited Paper)						
BH	Kim, B.Y. et al, "Fiber-Optic Device Research at Stanford University", <i>Proceedings SPIE, Fiber Optic and Laser Sensors, Boston Massachusetts</i> , Sept. 5-7, 1989, Vol. 1169, pp. 10-15, (Invited Paper)						
BH	Kim, B.Y. et al, "Few-Mode Fiber Devices", <i>ICOESE '90, Beijing, China</i> , Aug. 1990, Vol. 2, pp. 146-149, (Invited Paper)						
BH	Koh, Y.W. et al, "Mode Coupling Fiber Gratings for Fiber Optic Devices", <i>OFS-9, Firenze, Italia</i> , May 4-6, 1993, pp. 35-38						
BH	Yun, S.H. et al, "All-Fiber Acousto-Optic Tunable Filter", <i>OFC '95, San Diego, California</i> , Feb. 26-Mar. 3, 1995, pp. 186-187						
BH	Yun, S.H. et al, "Electronically Tunable Fiber Laser Using All-Fiber Acousto-Optic Tunable Filter", <i>IOOC '95 (10th International Conference on Integrated Optics and Optical Fibre Communication) Hong Kong</i> , June 26-30, 1995, pp. 22-23						
BH	Yun, S.H. et al, "Polarization Dependence of Two-Mode Fiber-Acousto-Optic Device", <i>OFS-11, Sapporo, Hokkaido, Japan</i> , May 21-24, 1996, pp. 478-481						
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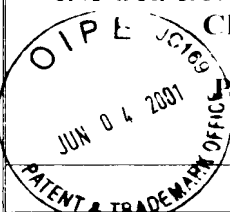
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B.M.H.	Jeon, M.Y. et al, "Harmonically Mode-Locked Fiber Using an All-Fiber Acousto-Optic Tunable Filter", <i>OFC '97, Dallas, Texas</i> , Feb. 16-22, 1997, pp. 166-167						
B.M.H.	Yun, S.H. et al, "Wavelength-swept Fiber Laser with Frequency-Shifted Feedback", <i>OFC '97, Dallas, Texas</i> , Feb. 16, 1997, pp. 30-31						
B.M.H.	Kim, H.S. et al, "Single-Mode-Fiber Acousto-Optic Tunable Notch Filter", <i>2nd Optoelectronics & Communications Conference '97</i> , July 8-11, 1997, pp. 226-227						
B.M.H.	Yun, S.H. et al, "Fiber grating sensor array demodulation using wavelength-swept fiber laser", <i>OFS-12, Williamsburg, Virginia</i> , Oct. 28-31, 1997						
B.M.H.	Hwang, I.K. et al, "All-fiber nonreciprocal comb filter with wavelength tunability", <i>OFC '98, ThQ5, San Jose, USA</i> , Feb. 22-27, 1998, pp. 336-338						
B.M.H.	Kim, H.S. et al, "Dynamic gain equalization of erbium-doped filter amplifier with all-fiber-acousto-optic tunable filters", <i>OFC '98, WG4, San Jose, USA</i> , Feb. 22-27, 1998, pp. 136-138						
B.M.H.	Koh, Y.W. et al, "Broadband Polarization-Insensitive All-Fiber Acousto-Optic Modulator", <i>OFC '98, WM50, San Jose, USA</i> , Feb. 22-27, Vol. 2, pp. 239-240						
B.M.H.	Oh, K. et al, "Characterization of elliptic core fiber acousto-optic tunable filters operated in the single mode and the multi-mode range", <i>OFC '98, WM59, San Jose, USA</i> , Vol. 2, pp. 250-251						
B.M.H.	Yun, S.H. et al, "Generation of self-starting mode-locked pulses in wavelength-swept fiber lasers", <i>CLEO/IQEC '98, San Francisco, USA</i> , May 3-8, 1998						
B.M.H.	Hwang, I.K. et al, "Long-Period Gratings based on Arch-induced Microbends", <i>OECC '98, Chiba, Japan</i> , July 12-16, 1998, pp. 144-145						
B.M.H.	Kim, B.Y. et al, "Fiber Based Acousto-Optic Filters", <i>OFC/IOOC '99, San Diego, USA</i> , Feb. 21-26, 1999, pp. 199-201, (Invited Paper)						
B.M.H.	Hwang, I.K. et al, "Profile-controlled long-period fiber gratings based on microbends", <i>OFC/IOOC '99, San Diego, California</i> , Feb. 21-26, 1999, pp. 177-179						
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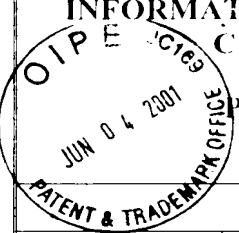
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BuH	Park, H.S. et al, "All-fiber add-drop multiplexer using a tilted fiber Bragg grating and mode-selective couplers", <i>OFC/IOOC '99, San Diego, California, USA</i> , Feb. 21-26, 1999, TuH6, pp. 91-93						
BuH	Kim, B.Y., "Acousto-optic Components for WDM Applications", <i>IEEE/LEOS Summer Topical Meetings, San Diego, USA</i> , July 26-28, 1999, pp. 47-48, (Invited Paper)						
BuH	Kim, B.Y., "Acousto-optic filters for fiber systems", <i>ICO-128, San Francisco, USA</i> , Aug. 2-6, 1999, pp. 92-93, (Invited Paper)						
BuH	Song, K.Y. et al, "High Performance Fused-type Mode Selective Couple for Two-mode Fiber Devices", <i>OFC 2000, Baltimore, USA</i> , Mar. 5-10, 2000, Vol. 37, TuB5						
BuH	Risk, W.P. et al, "Acousto-optic frequency shifting in birefringent fiber", <i>Optics Letters</i> , 1984, Vol. 9, No. 7, pp. 309-311						
BuH	Birks, T.A. et al, "Four-port fiber frequency shifter with a null tap coupler", <i>Optics Letters</i> , 1994, Vol. 19, No. 23, pp. 1964-1966						
BuH	Berwick, M. et al, "Coaxial optical-fiber frequency shifter", <i>Optics Letters</i> , Feb. 15, 1992, Vol. 17, No. 4, pp. 270-272						
BuH	Lisboa, O. et al, "New configuration for an optical fiber acousto-optic frequency shifter", <i>Proc. Soc. Photo-Opt. Instrum. Eng.</i> , Mar. 13-14, 1990, Vol. 1267, pp. 17-23						
BuH	Culverhouse, D.O. et al, "Four port fused taper acousto-optic device using standard single mode telecommunication fiber", <i>Electronic Letters</i> , July 20, 1995, Vol. 31, No. 15, pp. 1279-1280						
BuH	Culverhouse, D.O. et al, "Low-loss all-fiber acousto-optic tunable filter", <i>Optic Letters</i> , 1997, Vol. 22, No. 2, pp. 96-98						
BuH	Dimmick, T.E. et al, "Compact all-fiber acoustooptic tunable filters with small bandwidth-length product", <i>IEEE Photonics Technology Letters</i> , Sept. 2000, Vol. 12, No. 9, pp. 1210-1212						
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		APPLICANT Wayne V. Sorin					
		FILING DATE 3/16/01		GROUP Unassigned 2874			
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
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EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
BMH	Kakarantzas, G. et al, "High strain-induced wavelength tunability in tapered fibre acousto-optic filters", <i>Electronics Letters</i> , July 6, 2000, Vol. 36, No. 14, pp. 1187-1888						
BMH	Dimmick, T.E. et al, "Narrow-band acousto-optic tunable filter fabricated from highly uniform tapered optical fiber", <i>Optical Fiber Communication Conference, 2000</i> , 2000, Vol. 4, pp. 25-27						
BMH	Russell, P.S.J. et al, "All-Fibre Frequency Shifters, Modulators and Switches", <i>Lasers and Electro-Optics Europe, 1998</i> , 1998, p. 349						
BMH	Birks, T.A. et al, "Control of bandwidth in fiber acousto-optic tunable filters and other single-mode null coupler devices", <i>Lasers and Electro-Optics, 1997</i> , 1997, Vol. 11, pp. 444-445						
BMH	Culverhouse, D.O. et al, "40-MHz all-fiber acoustooptic frequency shifter", <i>IEEE Photonics Technology Letters</i> , Dec. 1996, Vol. 8, No. 12, pp. 1636-1637						
BMH	Birks, T.A. et al, "The acousto-optic effect in single-mode fiber tapers and couplers", <i>Journal of Lightwave Technology</i> , Nov. 1996, Vol. 14, No. 11, pp. 2519-2529						
BMH	Culverhouse, D.O. et al, "All-fibre Acousto-optic Tunable Filter Based On a Null Coupler", <i>Optical Communication 1996. ECOC '96</i> , 1996, Vol. 3, pp. 317-320						
BMH	Birks, T.A. et al, "Low power acousto-optic device based on a tapered single-mode fiber", <i>IEEE Photonics Technology Letters</i> , June 1994, Vol. 6, No. 6, pp. 725-727						
BMH	Zayer, N.K. et al, "In situ ellipsometric monitoring of growth of zinc oxide thin films with applications to high-frequency fiber acousto-optic components", <i>Lasers and Electro-Optics, 1998. CLEO '98</i> , 1998, pp. 251-252						
BMH	Pannell, C.N. et al, "In-fiber and fiber-compatible acoustooptic components", <i>Journal of Lightwave Technology</i> , July 1995, Vol. 13, No. 7, pp. 1429-1434						
BMH	Abdulhalim, I. et al, "Acoustooptic in-fiber modulator acoustic focusing", <i>IEEE Photonics Technology Letters</i> , Sept. 1993, Vol. 5, No. 9, pp. 999-1002						
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
BuH	Huang, D.W. et al, "Q-switched all-fiber laser with an acoustically modulated fiber attenuator". <i>IEEE Photonics Technology Letters</i> , Sept. 2000, Vol. 12, No. 9, pp. 1153-1155						
BuH	Huang, D.W. et al, "Reflectivity-tunable fiber Bragg grating reflectors". <i>IEEE Photonics Technology Letters</i> , Feb. 2000, Vol. 12, No. 2, pp. 176-178						
BuH	Liu, W.F. et al, "Switchable narrow bandwidth comb filter based on an acoustooptic superlattice modulator in Sinc-sampled fiber gratings". <i>Lasers and Electro-Optics</i> , 1999, 1999, pp. 77-78						
BuH	Liu, W.F. et al, "100% efficient narrow-band acoustooptic tunable reflector using fiber Bragg grating". <i>Journal of Lightwave Technology</i> , Nov., 1998, Vol. 16, No. 11, pp. 2006-2009						
BuH	Patterson, D.B. et al, "Frequency shifting in optical fiber using a Saw Horn", <i>Ultrasonics Symposium</i> , 1990, 1990, Vol. 2, pp. 617-620						
BuH	Patterson, D.B. et al, "Noninvasive switchable acousto-optic taps for optical fiber", <i>Journal of Lightwave Technology</i> , Sept. 1990, Vol. 8, No. 9, pp. 1304-1312						
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